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1 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Getting and giving information: What is this text about?
Nicolas Hernandez, Brigitte Grau
October 2003 **Proceedings of the 21st annual international conference on Documentation**
Full text available: 📄 pdf(229.96 KB)   Additional Information: full citation, abstract, references, index terms

Most work in text retrieval aims at presenting the information held by several texts in order to give entry clues towards these texts and to allow a navigation between them. Besides, a lesser interest is dedicated to the definition of principles for accessing content of single documents. As most information retrieval systems return documents from an initial request made of words, a usual solution consists of presenting document titles and highlighting words of the request inside a passage or in ...

Keywords: dynamic summarization, meta-descriptors and topical descriptors identification, text structure, text visualization

3 An efficient meta-lock for implementing ubiquitous synchronization
Ole Agesen, David Detlefs, Alex Garthwaite, Ross Knippel, Y. S. Ramakrishna, Derek White
October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 34 Issue 10
Full text available: 📄 pdf(2.00 MB)   Additional Information: full citation, abstract, references, citings, index terms

Programs written in concurrent object-oriented languages, especially ones that employ

thread-safe reusable class libraries, can execute synchronization operations (lock, notify, etc.) at an amazing rate. Unless implemented with utmost care, synchronization can become a performance bottleneck. Furthermore, in languages where every object may have its own monitor, per-object space overhead must be minimized. To address these concerns, we have developed a meta-lock to mediate access to synchro ...

Keywords: concurrent threads, object-oriented language implementation, synchronization

4 Special issue: AI in engineering

D. Sriram, R. Joobbani
January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: pdf(8.79 MB)   Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

5 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available: pdf(13.13 MB)   Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

6 A knowledge-based electronic information and documentation system

Robert L. Young, Elaine Kant, Larry A. Akers
January 2000 **Proceedings of the 5th international conference on Intelligent user interfaces**

Full text available: pdf(795.61 KB)   Additional Information: full citation, abstract, references, citings, index terms

We describe the capabilities of a knowledge-based system to automatically generate a collection of electronic notebooks containing various forms of online documentation and reports. This system is a subsystem of a larger knowledge-based system called SciNapse. SciNapse's raison d'etre is to transform high-level simulation problem specifications into executable numerical programs. The electronic notebooks are generated from the same domain knowledge bases that the system uses to perform its ...

Keywords: intelligent interfaces, knowledg-based systems

7 Interactive Editing Systems: Part II

Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: pdf(9.17 MB)   Additional Information: full citation, references, citings, index terms

8 Document image understanding

Sargur N. Srihari
November 1986 **Proceedings of 1986 ACM Fall joint computer conference**

Full text available: pdf(1.38 MB)   Additional Information: full citation, references, citings, index terms

9 A unified framework for model-based clustering
Shi Zhong, Joydeep Ghosh
December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(851.48 KB)   Additional Information: full citation, abstract, index terms

Model-based clustering techniques have been widely used and have shown promising results in many applications involving complex data. This paper presents a unified framework for probabilistic model-based clustering based on a bipartite graph view of data and models that highlights the commonalities and differences among existing model-based clustering algorithms. In this view, clusters are represented as probabilistic models in a model space that is conceptually separate from the data space. For ...

10 PCCTS reference manual: version 1.00
T. J. Parr, H. G. Dietz, W. E. Cohen
February 1992 **ACM SIGPLAN Notices**, Volume 27 Issue 2

Full text available: pdf(3.77 MB)   Additional Information: full citation, citings, index terms

11 Document formatting: Inter and intra media-object QoS provisioning in adaptive formatters
Rogério Ferreira Rodrigues, Luiz Fernando Gomes Soares
November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available: pdf(483.39 KB)   Additional Information: full citation, abstract, references, citings, index terms

The development of hypermedia/multimedia systems requires the implementation of an element, usually known as *formatter*, which is in charge of receiving the specification of a document (structure, media-object relationships and presentation descriptions) and controlling its presentation. The process of controlling and maintaining the presentation of a hyperdocument with an output of acceptable quality is a QoS orchestration problem, which needs to be treated by formatters in two related le ...

Keywords: hyperProp system, hypermedia formatter, media synchronization, quality of service

12 Curriculum 68: Recommendations for academic programs in computer science: a report of the ACM curriculum committee on computer science
William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thomas A. Keenan, William B. Kehl, Edward J. McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J. Schweppe, William Viavant, David M. Young
March 1968 **Communications of the ACM**, Volume 11 Issue 3

Full text available: pdf(6.63 MB)   Additional Information: full citation, references, citings

Keywords: computer science academic programs, computer science bibliographies, computer science courses, computer science curriculum, computer science education, computer science graduate programs, computer science undergraduate programs

13 Document access and understanding: Methods for the semantic analysis of document markup

Petra Saskia Bayerl, Harald Lüngen, Daniela Goecke, Andreas Witt, Daniel Naber
November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available: pdf(230.61 KB)   Additional Information: full citation, abstract, references, index terms

We present an approach on how to investigate what kind of semantic information is regularly associated with the structural markup of scientific articles. This approach addresses the need for an explicit formal description of the semantics of text-oriented XML-documents. The domain of our investigation is a corpus of scientific articles from psychology and linguistics from both English and German online available journals.For our analyses, we provide XML-markup representing two kinds of semantic ...

Keywords: XML, information extraction, prolog, semantic analysis

14 Translator writing systems

Jerome Feldman, David Gries
February 1968 **Communications of the ACM**, Volume 11 Issue 2

Full text available: pdf(4.47 MB)   Additional Information: full citation, abstract, references, citings

A critical review of recent efforts to automate the writing of translators of programming languages is presented. The formal study of syntax and its application to translator writing are discussed in Section II. Various approaches to automating the postsyntactic (semantic) aspects of translator writing are discussed in Section III, and several related topics in Section IV.

Keywords: compiler compiler-compiler, generator, macroprocessor, meta-assembler, metacompiler, parser, semantics, syntactic analysis, syntax, syntax-directed, translator, translator writing system

15 Workshop on compositional software architectures: workshop report

May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Full text available: pdf(2.91 MB)   Additional Information: full citation, index terms

16 EMACS the extensible, customizable self-documenting display editor

Richard M. Stallman
June 1981 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN SIGOA symposium on Text manipulation**, Volume 16 Issue 6

Full text available: pdf(1.13 MB)   Additional Information: full citation, abstract, citings, index terms

EMACS is a display editor which is implemented in an interpreted high level language. This allows users to extend the editor by replacing parts of it, to experiment with alternative command languages, and to share extensions which are generally useful. The ease of extension has contributed to the growth of a large set of useful features. This paper describes the organization of the EMACS system, emphasizing the way in which extensibility is achieved and used. This report describe ...

17 Technical reports

SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available: 🔲 pdf(5.28 MB)   Additional Information: full citation

18 Efficient filtering of XML documents with XPath expressions   ⬛

C.-Y. Chan, P. Felber, M. Garofalakis, R. Rastogi

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4

Full text available: 🔲 pdf(383.34 KB)   Additional Information: full citation, abstract, citings, index terms

The publish/subscribe paradigm is a popular model for allowing publishers (i.e., data generators) to selectively disseminate data to a large number of widely dispersed subscribers (i.e., data consumers) who have registered their interest in specific information items. Early publish/subscribe systems have typically relied on simple subscription mechanisms, such as keyword or "bag of words" matching, or simple comparison predicates on attribute values. The emergence of XML as a standar ...

Keywords: Data dissemination, Document filtering, Index structure, XML, XPath

19 Multimedia document architecture (panel session)   ⬛

Stephen Bulick, Terry Crowley, Lester Ludwig, Jonathan Rosenberg

August 1990 **ACM SIGGRAPH 90 Panel Proceedings**

Full text available: 🔲 pdf(4.35 MB)   Additional Information: full citation, index terms

20 Z - the 95% program editor   ⬛

Steven R. Wood

June 1981 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN SIGOA symposium on Text manipulation**, Volume 16 Issue 6

Full text available: 🔲 pdf(757.05 KB)   Additional Information: full citation, abstract, references, citings, index terms

Recently much attention has been focused on structure-oriented program editors that have specific knowledge about the syntax and semantics of a particular programming language [1, 4, 5, 18]. These editors provide many desirable features for editing programs. However, the user interface is constrained by the syntax and semantics of the target language, and editing operations that are simple in a text editor can be quite complicated in a structure-oriented editor. In addition, the user has an ...

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1 Industry session 1: knowledge management and semantics: Thematic mapping - from unstructured documents to taxonomies ■

Christina Yip Chung, Raymond Lieu, Jinhui Liu, Alpha Luk, Jianchang Mao, Prabhakar Raghavan
November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Full text available: 📄 pdf(202.36 KB)   Additional Information: full citation, abstract, references, index terms

Verity Inc. has developed a comprehensive suite of tools for accurately and efficiently organizing enterprise content which involves four basic steps: (i) creating taxonomies, (ii) building classification models, (iii) populating taxonomies with documents, and (iv) deploying populated taxonomies in enterprise portals. A taxonomy is a hierarchical representation of categories. A taxonomy provides a navigation structure for exploring and understanding the underlying corpus without sifting through ...

Keywords: clustering and labeling, concept discovery, concept tree construction and visualization, conceptual search, thematic mapping

2 Enhanced hypertext categorization using hyperlinks ■

Soumen Chakrabarti, Byron Dom, Piotr Indyk
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Full text available: 📄 pdf(1.91 MB)   Additional Information: full citation, abstract, references, citings, index terms

A major challenge in indexing unstructured hypertext databases is to automatically extract meta-data that enables structured search using topic taxonomies, circumvents keyword ambiguity, and improves the quality of search and profile-based routing and filtering. Therefore, an accurate classifier is an essential component of a hypertext database. Hyperlinks pose new problems not addressed in the extensive text classification literature. Links clearly contain high-quality semantic clues that ...

3 Research track: SEWeP: using site semantics and a taxonomy to enhance the Web personalization process ■

M. Eirinaki, M. Vazirgiannis, I. Varlamis
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(429.65 KB)   terms

Web personalization is the process of customizing a Web site to the needs of each specific user or set of users, taking advantage of the knowledge acquired through the analysis of the user's navigational behavior. Integrating usage data with content, structure or user profile data enhances the results of the personalization process. In this paper, we present SEWeP, a system that makes use of both the usage logs and the semantics of a Web site's content in order to personalize it. Web content is ...

Keywords: Web mining, Web personalization, concept hierarchies, semantic annotation of Web content

4 **E-Design Based on the Reuse Paradigm**
L. Ghanmi, A. Ghrab, M. Hamdoun, B. Missaoui, K. Skiba, G. Saucier
March 2002 **Proceedings of the conference on Design, automation and test in Europe**

Full text available: pdf(244.78 KB)
Publisher Site
Additional Information: full citation, abstract, citings

This paper gives an overview on a Virtualelectronic component or IP (Intellectual Property) exchange infrastructure whose main components area XML "well structured IP e-catalog Builder ¿"and a" XML IP profiler¿ While the first module is ae_publishing and an exchange management modulethe second has as role to extract from the designdirectories the IP files and to trigger their transferto the user site possibly via an IP distribution serverunder the catalog control. Direct Design fileextraction fro ...

5 **Informatics: dialogue: The impatient tutor: an integrated language understanding system**
Brian Phillips, James Hendler
September 1980 **Proceedings of the 8th conference on Computational linguistics**

Full text available: pdf(563.00 KB)   Additional Information: full citation, abstract, references

We describe a language understanding system that uses the techniques of segmenting the computation into autonomous modules that communicate by message passing. The goal is to integrate semantic and syntactic processing to achieve greater flexibility and robustness in the design of language understanding systems.

6 **A message-passing control structure for text understanding**
Brian Phillips, James A. Hendler
July 1982 **Proceedings of the 9th conference on Computational linguistics - Volume 1**

Full text available: pdf(267.18 KB)   Additional Information: full citation, abstract, references

This paper describes an object-oriented, message-passing system for natural language text understanding. The application domain is the texts of Texas Instruments' patent descriptions. The object-oriented environment permits syntactic analysis modules to communicate with domain knowledge modules to resolve ambiguities as they arise.

7 **On the merits of building categorization systems by supervised clustering**
Charu C. Aggarwal, Stephen C. Gates, Philip S. Yu
August 1999 **Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(618.12 KB)   Additional Information: full citation, references, citings, index terms

8 **Scalable feature selection, classification and signature generation for organizing large**

text databases into hierarchical topic taxonomies
Soumen Chakrabarti, Byron Dom, Rakesh Agrawal, Prabhakar Raghavan
August 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 7 Issue 3
Full text available: 📄 pdf(281.37 KB)   Additional Information: full citation, abstract, citings, index terms

> We explore how to organize large text databases hierarchically by topic to aid better searching, browsing and filtering. Many corpora, such as internet directories, digital libraries, and patent databases are manually organized into topic hierarchies, also called *taxonomies*. Similar to indices for relational data, taxonomies make search and access more efficient. However, the exponential growth in the volume of on-line textual information makes it nearly impossible to maintain such taxono ...

9 Poster papers: PathScape: indexing audio-visual digital media
Mike Leggett
April 2005 **Proceedings of the 5th conference on Creativity & cognition**

Full text available: 📄 pdf(515.14 KB)   Additional Information: full citation, abstract, references, index terms

> The contemporary burgeoning usage of digital movies, photos, audio and text, their distribution through networks both electronic and physical, will be considered in the context of a convergence of these media with a contemporary engagement with personal and community history.An interactive experimental prototype, PathScape, will be described and evaluated and further practice-based research approaches to author-defined storage and retrieval systems will be outlined.
>
> **Keywords**: digital media, index, interactive, taxonomy

10 Total order broadcast and multicast algorithms: Taxonomy and survey
Xavier Défago, André Schiper, Péter Urbán
December 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 4

Full text available: 📄 pdf(544.45 KB)   Additional Information: full citation, abstract, references, index terms

> Total order broadcast and multicast (also called atomic broadcast/multicast) present an important problem in distributed systems, especially with respect to fault-tolerance. In short, the primitive ensures that messages sent to a set of processes are, in turn, delivered by all those processes in the same total order.
>
> **Keywords**: Distributed systems, agreement problems, atomic broadcast, atomic multicast, classification, distributed algorithms, fault-tolerance, global ordering, group communication, message passing, survey, taxonomy, total ordering

11 A data dictionary as a Lexicon: an application of linguistics in information systems
J. F. M. Burg, R. P. van de Riet, S. C. Chang
December 1993 **Proceedings of the second international conference on Information and knowledge management**
Full text available: 📄 pdf(826.11 KB)   Additional Information: full citation, references, index terms

12 Conceptual analysis of lexical taxonomies: the case of WordNet top-level
Aldo Gangemi, Nicola Guarino, Alessandro Oltramari
October 2001 **Proceedings of the international conference on Formal Ontology in Information Systems - Volume 2001**
Full text available: 📄 pdf(1.27 MB)   Additional Information: full citation, abstract, references, citings, index

terms, review

In this paper we propose an analysis and an upgrade of WordNet's top-level synset taxonomy. We briefly review WordNet and identify its main semantic limitations. Some principles from a forthcoming *OntoClean* methodology are applied to the ontological analysis of WordNet. A revised top-level taxonomy is proposed, which is meant to be more conceptually rigorous, cognitively transparent, and efficiently exploitable in several applications.

Keywords: WordNet, ontology, taxonomies, top-level

13 Contribution of a category hierarchy to the robustness of syntactic parsing.
Damien Genthial, Jacques Courtin, Irène Kowarski
August 1990 **Proceedings of the 13th conference on Computational linguistics - Volume 2**
Full text available: pdf(478.07 KB)   Additional Information: full citation, abstract, references, citings

We describe how the use of a hierarchy of lexical categories instead of a simple set of categories leads to the definition of a flexible and precise language for the description of dependency structures. After specifying the formalism we use to decorate these structures, we present an application aiming to detect and correct errors in a written text. We outline how the use of the hierarchy improves the manipulation of unknown words.

14 Posters: An agent system reasoning about the web and the user
Giovambattista Ianni, Francesco Ricca, Francesco Calimeri, Vincenzino Lio, Stefania Galizia
May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**
Full text available: pdf(43.02 KB)   Additional Information: full citation, abstract, references, index terms

The paper describes some innovations related to the ongoing work on the GSA prototype, an integrated information retrieval agent. In order to improve the original system effectiveness, we propose the GSA2 system, introducing a new internal architecture based on a message-passing framework and on an ontology description formalism (WOLF, Web ontology Framework). GSA2 is conceived in order to describe and easily perform reasoning on "facts about the web and the user". The most ...

Keywords: agents, answer set programming, information retrieval, logic programming

15 Query result processing: A hierarchical monothetic document clustering algorithm for summarization and browsing search results
Krishna Kummamuru, Rohit Lotlikar, Shourya Roy, Karan Singal, Raghu Krishnapuram
May 2004 **Proceedings of the 13th international conference on World Wide Web**
Full text available: pdf(446.94 KB)   Additional Information: full citation, abstract, references, index terms

Organizing Web search results into a hierarchy of topics and sub-topics facilitates browsing the collection and locating results of interest. In this paper, we propose a new hierarchical monothetic clustering algorithm to build a topic hierarchy for a collection of search results retrieved in response to a query. At every level of the hierarchy, the new algorithm progressively identifies topics in a way that maximizes the coverage while maintaining distinctiveness of the topics. We refer the pro ...

Keywords: automatic taxonomy generation, clustering, data mining, search, summarization

16 Data mining (DM): Framework for mining web content outliers
Malik Agyemang, Ken Barker, Reda Alhajj
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(138.47 KB)   Additional Information: full citation, abstract, references, index terms

Outliers are data objects with different characteristics compared to other data objects.
Exploring the diverse and dynamic web data for outliers is more interesting than finding
outliers in numeric data sets. Interestingly, the existing web mining algorithms have
concentrated on finding patterns that are frequent while discarding the less frequent ones
that are likely to contain the outlying data. This paper refers to outliers present on the web
as *web outliers* to distinguish them from tr ...

Keywords: content-specific algorithms, data mining, resource extraction, web outliers

17 Special issue: AI in engineering
D. Sriram, R. Joobbani
January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: pdf(8.79 MB)   Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the
July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest
being shown in this area is reflected in the sixty papers received from over six countries.
About half the papers were received over the computer network.

18 Full papers: Losers and finders: indexing audio-visual digital media
Mike Leggett
April 2005 **Proceedings of the 5th conference on Creativity & cognition**

Full text available: pdf(323.17 KB)   Additional Information: full citation, abstract, references, index terms

The contemporary burgeoning usage of digital movies, photos, audio and text, their
distribution through networks both electronic and physical will be considered in the context
of a convergence of these media with a popular interest in personal and community history
and identity.The paper introduces interdisciplinary research into human memory as a
context for understanding its relation to machine memory and methods of storing and
retrieval. It proposes an approach to indexing audio-visual media ...

Keywords: digital media, index, interactive, taxonomy

19 Industry track: Intelligent agent for automated manufacturing rule generation
Alan Clark, Dimitar Filev
November 2004 **Proceedings of the Thirteenth ACM conference on Information and
          knowledge management**

Full text available: pdf(247.85 KB)   Additional Information: full citation, references, index terms

Keywords: KBE, clustering algorithms, intelligent agent, knowledge extraction, knowledge
management, latent semantic indexing

20 Text classification: Parameterized generation of labeled datasets for text categorization
based on a hierarchical directory
Dmitry Davidov, Evgeniy Gabrilovich, Shaul Markovitch
July 2004 **Proceedings of the 27th annual international conference on Research and**

development in information retrieval

Full text available: 🔲 pdf(164.60 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Although text categorization is a burgeoning area of IR research, readily available test collections in this field are surprisingly scarce. We describe a methodology and system (named ACCIO) for *automatically* acquiring labeled datasets for text categorization from the World Wide Web, by capitalizing on the body of knowledge encoded in the structure of existing hierarchical directories such as the Open Directory. We define *parameters* of categories that make it possible to acquire nu ...

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Best 200 shown   Relevance scale ☐ ▭ ▬ ◼ ◼

41 Personalized spiders for web search and analysis
Michael Chau, Daniel Zeng, Hinchun Chen
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available: 📄 pdf(672.04 KB)   Additional Information: full citation, abstract, references, citings, index terms

Searching for useful information on the World Wide Web has become incr easingly difficult. While Internet search engines have been helping people to search on the web, low recall rate and outdated indexes have become more and more problematic as the web grows. In addition, search tools usually present to the user only a list of search results, failing to provide further personalized analysis which could help users identify useful information and comprehend these results. To alleviate these ...

Keywords: information retrieval, internet searching and browsing, internet spider, noun-phrasing, personalization, self-organizing map

42 Natural language information retrieval in digital libraries
Tomek Strzalkowski, Jose Perez-Carballo, Mihnea Marinescu
April 1996 **Proceedings of the first ACM international conference on Digital libraries**

Full text available: 📄 pdf(1.03 MB)   Additional Information: full citation, references, index terms

43 Document Examiner: delivery interface for hypertext documents
Janet H. Walker
November 1987 **Proceeding of the ACM conference on Hypertext**

Full text available: 📄 pdf(1.28 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes the user interface strategy of Document Examiner, a delivery interface for commercial hypertext documents. Unlike many hypertext interfaces, Document Examiner does not adopt the directed graph as its fundamental user-visible navigation model. Instead it offers context evaluation and content-based searching capabilities that are based on consideration of the strategies that people use in interacting with paper documents.

44 Summarization-based query expansion in information retrieval

Tomek Strzalkowski, Jin Wang, Bowden Wise
August 1998

Full text available: pdf(726.07 KB)
Publisher Site

Additional Information: full citation, abstract, references

We discuss a semi-interactive approach to information retrieval which consists of two tasks performed in a sequence. First, the system assists the searcher in building a comprehensive statement of information need, using automatically generated topical summaries of sample documents. Second, the detailed statement of information need is automatically processed by a series of natural language processing routines in order to derive an optimal search query for a statistical information retrieval sys ...

45 A unified environment for fusion of information retrieval approaches
M. Catherine McCabe, Abdur Chowdhury, David A. Grossman, Ophir Frieder
November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Full text available: pdf(566.22 KB)

Additional Information: full citation, abstract, references, citings, index terms

Prior work has shown that combining results of various retrieval approaches and query representations can improve search effectiveness. Today, many meta-search engines exist which combine the results of various search engines in the hopes of improving overall effectiveness. However, the combination of results from different search engines masks variations in parsers, and other indexing techniques (stemming, stop words, etc.) This makes it difficult to assess the utility of the fusion techni ...

Keywords: fusion, information retrieval, metasearch, retrieval, text

46 An intelligent multilingual information browsing and retrieval system using information extraction
Chinatsu Aone, Nicholas Charocopos, James Gorlinsky
March 1997 **Proceedings of the fifth conference on Applied natural language processing**

Full text available: pdf(1.10 MB)
Publisher Site

Additional Information: full citation, abstract, references, citings

In this paper, we describe our multilingual (or cross-linguistic) information browsing and retrieval system, which is aimed at monolingual users who are interested in information from multiple language sources. The system takes advantage of *information extraction* (IE) technology in novel ways to improve the accuracy of cross-linguistic retrieval and to provide innovative methods for browsing and exploring multilingual document collections. The system indexes texts in different languages (...

47 Placing search in context: the concept revisited
Lev Finkelstein, Evgeniy Gabrilovich, Yossi Matias, Ehud Rivlin, Zach Solan, Gadi Wolfman, Eytan Ruppin
April 2001 **Proceedings of the 10th international conference on World Wide Web**

Full text available: pdf(235.96 KB)   Additional Information: full citation, references, citings, index terms

Keywords: context, invisible web, search, semantic processing, statistical natural language processing

48 Integrating automatic genre analysis into digital libraries

Andreas Rauber, Alexander Müller-Kögler

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(672.98 KB)   Additional Information: full citation, abstract, references, citings, index terms

With the number and types of documents in digital library systems incr easing, tools for automatically organizing and presenting the content have to be found. While many approaches focus on topic-based organization and structuring, hardly any system incorporates automatic structural analysis and representation. Yet, genre information (unconsciously) forms one of the most distinguishing features in conventional libraries and in information searches. In this paper we present an approach to au ...

Keywords: SOMLib, document clustering, genre analysis, metaphor graphics, self-organizing map (SOM), visualization

49 Using properties for uniform interaction in the Presto document system

Paul Dourish, W. Keith Edwards, Anthony LaMarca, Michael Salisbury

November 1999 **Proceedings of the 12th annual ACM symposium on User interface software and technology**

Full text available: pdf(477.56 KB)   Additional Information: full citation, abstract, references, citings, index terms

Most document or information management systems rely on hierarchies to organise documents (e.g. files, email messages or web bookmarks). However, the rigid structures of hierarchical schemes do not mesh well with the more fluid nature of everyday document practices. This paper describes Presto, a prototype system that allows users to organise their documents entirely in terms of the properties those documents hold for users. Properties provide a uniform mechanism for managing, coding, searc ...

Keywords: document interfaces, document management, document properties, interaction models

50 Scalable collection summarization and selection

R. Dolin, D. Agrawal, E. El Abbadi

August 1999 **Proceedings of the fourth ACM conference on Digital libraries**

Full text available: pdf(263.57 KB)   Additional Information: full citation, references, citings, index terms

Keywords: automated classification, metadata, resource discovery, scalability

51 Emergent web patterns: Automatically sharing web experiences through a hyperdocument recommender system

Alessandra Alaniz Macedo, Khai N. Truong, José Antonio Camacho-Guerrero, Maria da GraÇa Pimentel

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

Full text available: pdf(620.88 KB)   Additional Information: full citation, abstract, references, citings, index terms

As an approach that applies not only to support user navigation on the Web, recommender systems have been built to assist and augment the natural social process of asking for recommendations from other people. In a typical recommender system, people provide

suggestions as inputs, which the system aggregates and directs to appropriate recipients. In some cases, the primary computation is in the aggregation; in others, the value of the system lies in its ability to make good matches between the re ...

Keywords: information retrieval, open hypermedia, recommender systems, semantic structures, web

52 Data structures for efficient broker implementation

Anthony Tomasic, Luis Gravano, Calvin Lue, Peter Schwarz, Laura Haas
July 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 3

Full text available: pdf(316.45 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

With the profusion of text databases on the Internet, it is becoming increasingly hard to find the most useful databases for a given query. To attack this problem, several existing and proposed systems employ brokers to direct user queries, using a local database of summary information about the available databases. This summary information must effectively distinguish relevant databases and must be compact while allowing efficient access. We offer evidence that one broker, GlOSS
Keywords: GlOSS, broker architecture, broker performance, distributed information, grid files, partitioned hashing

53 Analysis of lexical signatures for improving information persistence on the World Wide Web

Seung-Taek Park, David M. Pennock, C. Lee Giles, Robert Krovetz
October 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 4

Full text available: pdf(808.10 KB)   Additional Information: full citation, abstract, references, index terms

A <i>lexical signature</i> (LS) consisting of several key words from a Web document is often sufficient information for finding the document later, even if its URL has changed. We conduct a large-scale empirical study of nine methods for generating lexical signatures, including Phelps and Wilensky's original proposal (PW), seven of our own static variations, and one new dynamic method. We examine their performance on the Web over a 10-month period, and on a TREC data set, evaluating t ...

Keywords: Broken URLs, TREC, World Wide Web, dead links, digital libraries, indexing, information retrieval, inverse document frequency, lexical signatures, robust hyperlinks, search engines, term frequency

54 Mobile data management: Mimic: raw activity shipping for file synchronization in mobile file systems

Tae-Young Chang, Aravind Velayutham, Raghupathy Sivakumar
June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services**

Full text available: pdf(334.54 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we consider the problem of file synchronization when a mobile host shares files with a backbone file server in a network file system. Several *diff* schemes have been proposed to improve upon the transfer overheads of conventional file synchronization approaches which use full file transfer. These schemes compute the binary *diff* of the new file with respect to the old copy at the server and transfer the computed *diff* to the server for file-synchronization. Howev ...

Keywords: file synchronization, mobile file system, raw activity shipping

55 Text categorization for multi-page documents: a hybrid naive Bayes HMM approach
Paolo Frasconi, Giovanni Soda, Alessandro Vullo
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(280.05 KB)   Additional Information: full citation, abstract, references, index terms

> Text categorization is typically formulated as a concept learning prob lem where each instance is a single isolated document. In this paper we are interested in a more general formulation where documents are organized as page sequences, as naturally occurring in digital libraries of scanned books and magazines. We describe a method for classifying pages of sequential OCR text documents into one of several assigned categories and suggest that taking into account contextual information provid ...
>
> **Keywords**: hidden Markov models, multi-page documents, naive Bayes classifier, text categorization

56 Constant interaction-time scatter/gather browsing of very large document collections
Douglass R. Cutting, David R. Karger, Jan O. Pedersen
July 1993 **Proceedings of the 16th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: pdf(798.85 KB)   Additional Information: full citation, abstract, references, citings, index terms

> The Scatter/Gather document browsing method uses fast document clustering to produce table-of-contents-like outlines of large document collections. Previous work [1] developed linear-time document clustering algorithms to establish the feasibility of this method over moderately large collections. However, even linear-time algorithms are too slow to support interactive browsing of very large collections such as Tipster, the DARPA standard text retrieval evaluation collection. We present a sc ...

57 Special issue on knowledge representation
Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available: pdf(13.13 MB)   Additional Information: full citation, abstract

> In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

58 Experiences with selecting search engines using metasearch
Daniel Dreilinger, Adele E. Howe
July 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 3

Full text available: pdf(428.65 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

> Search engines are among the most useful and high-profile resources on the Internet. The problem of finding information on the Internet has been replaced with the problem of knowing where search engines are, what they are designed to retrieve, and how to use them. This article describes and evaluates SavvySearch, a metasearch engine designed to intelligently select and interface with multiple remote search engines. The primary metasearch issue examined is the importance of carefully selecti ...

Keywords: WWW, information retrieval, machine learning, search engine

59 Text categorization and retrieval: Robust text processing in automated information retrieval ▬

Tomek Strzalkowski

October 1994 **Proceedings of the fourth conference on Applied natural language processing**

Full text available: 📄 pdf(593.70 KB)
📘 Publisher Site

Additional Information: full citation, abstract, references, citings

We report on the results of a series of experiments with a prototype text retrieval system which uses relatively advanced natural language processing techniques in order to enhance the effectiveness of statistical document retrieval. In this paper we show that large-scale natural language processing (hundreds of millions of words and more) is not only required for a better retrieval, but it is also doable, given appropriate resources. In particular, we demonstrate that the use of syntactic compo ...

60 Expansion of multi-word terms for indexing and retrieval using morphology and syntax ▬

Christian Jacquemin, Judith L. Klavans, Evelyne Tzoukermann

July 1997

Full text available: 📄 pdf(751.77 KB)
📘 Publisher Site

Additional Information: full citation, abstract, references, citings

A system for the automatic production of controlled index terms is presented using linguistically-motivated techniques. This includes a finite-state part of speech tagger, a derivational morphological processor for analysis and generation, and a unification-based shallow-level parser using transformational rules over syntactic patterns. The contribution of this research is the successful combination of parsing over a seed term list coupled with derivational morphology to achieve greater coverage ...

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1 Hierarchical classification of Web content   ■
Susan Dumais, Hao Chen
July 2000 **Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: 🗎 pdf(1.16 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper explores the use of hierarchical structure for classifying a large, heterogeneous collection of web content. The hierarchical structure is initially used to train different second-level classifiers. In the hierarchical case, a model is learned to distinguish a second-level category from other categories within the same top level. In the flat non-hierarchical case, a model distinguishes a second-level category from all other second-level categories. Scoring rules can further take ad ...

Keywords: Web hierarchies, classification, hierarchical models, machine learning, support vector machines, text catergorization, text classification

2 The exploration of legal text corpora with hierarchical neural networks: a guided tour in   ■
public international law
Dieter Merkl, Erich Schweighofer
June 1997 **Proceedings of the 6th international conference on Artificial intelligence and law**
Full text available: 🗎 pdf(1.12 MB)   Additional Information: full citation, references, citings, index terms

3 Session 3: interfacing stored media I: In-home access to multimedia content   ■
Dario Teixeira, Yassine Faihe
December 2002 **Proceedings of the tenth ACM international conference on Multimedia**
Full text available: 🗎 pdf(194.34 KB)   Additional Information: full citation, abstract, references

This paper discusses the problem of content overload in the home environment. We describe the various domains where the problem manifests itself, and we analyse which user activities could benefit from software assistance. In particular, we focus on the problem of searching for information, and we introduce the concept of *Conversational Search* as the means to tackle it. We also introduce a framework to test several heuristics related to Conversational Search, and show how using a model of ...

Keywords: browsing assistants, content overload, conversational interfaces, conversational search, digital photography, home environments, multimedia, user modelling

4   Query result processing: A hierarchical monothetic document clustering algorithm for ▪
summarization and browsing search results
Krishna Kummamuru, Rohit Lotlikar, Shourya Roy, Karan Singal, Raghu Krishnapuram
May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: ⬛ pdf(446.94 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Organizing Web search results into a hierarchy of topics and sub-topics facilitates browsing the collection and locating results of interest. In this paper, we propose a new hierarchical monothetic clustering algorithm to build a topic hierarchy for a collection of search results retrieved in response to a query. At every level of the hierarchy, the new algorithm progressively identifies topics in a way that maximizes the coverage while maintaining distinctiveness of the topics. We refer the pro ...

Keywords: automatic taxonomy generation, clustering, data mining, search, summarization

5   An explanation facility for a grammar writing system   ▪
Loong Cheong Tong
August 1990 **Proceedings of the 13th conference on Computational linguistics - Volume 2**

Full text available: ⬛ pdf(587.09 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Explanation has become a standard feature in many expert systems today. Adapting from this work, a study was made to determine the types of explanation required in a grammar writing system and to investigate design and implementation issues. The first version of this explanation facility is based on a derivational history of the inferencing process, and although no supplementary knowledge is used, this explanation facility is able to furnish answers to the traditional *why, how and what type o ...*

6   What is text, really?   ▪
Steven J. DeRose, David G. Durand, Elli Mylonas, Allen H. Renear
August 1997 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 21 Issue 3

Full text available: ⬛ pdf(1.20 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

THE WAY IN WHICH TEXT IS represented on a computer affects the kinds of uses to which it can be put by its creator and by subsequent users. The electronic document model currently in use is impoverished and restrictive. The authors argue that text is best represented as an ordered hierarchy of content object (OHCO), because that is what text really is. This model conforms with emerging standards such as SGML and contains within it advantages for the writer, publisher, and researcher. The authors ...

7   Bioinformatics (BIO): An architecture for biological information extraction and ▪
representation
Aditya Vailaya, Peter Bluvas, Robert Kincaid, Allan Kuchinsky, Michael Creech, Annette Adler
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: ⬛ pdf(355.71 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Technological advances in biomedical research are generating a plethora of heterogeneous data at a high rate. There is a critical need for extraction, integration and management

tools for information discovery and synthesis from these heterogeneous data. In this paper, we present a general architecture, called ALFA, for information extraction and representation from diverse biological data. The ALFA architecture consists of: (i) a networked, hierarchical object model for representing information ...

Keywords: bioinformatics, filtering, heterogeneous data, information representation, information retrieval, interactive text mining, software architecture, user-guided information extraction

8 A reusable, academic-strength, metrics-based software engineering process for capstone courses and projects
Richard Conn
March 2004 **ACM SIGCSE Bulletin , Proceedings of the 35th SIGCSE technical symposium on Computer science education**, Volume 36 Issue 1
Full text available: pdf(223.31 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes a mature Software Engineering Process that may be applied to capstone courses, student projects, and research projects in a university environment. This process, based in part on the Team Software Process of the Software Engineering Institute, features mature software engineering best practices, including extensive use of metrics to gain insight into process effectiveness and product quality. It is designed to be executed in a single 16-week semester, and it can easily be mo ...

Keywords: capability maturity model, communicating sequential process, data primitives, defect, personal software process, process improvement, software engineering institute, structured query language, team software process, unified modeling language, visual basic

9 Getting and giving information: What is this text about?
Nicolas Hernandez, Brigitte Grau
October 2003 **Proceedings of the 21st annual international conference on Documentation**
Full text available: pdf(229.96 KB)   Additional Information: full citation, abstract, references, index terms

Most work in text retrieval aims at presenting the information held by several texts in order to give entry clues towards these texts and to allow a navigation between them. Besides, a lesser interest is dedicated to the definition of principles for accessing content of single documents. As most information retrieval systems return documents from an initial request made of words, a usual solution consists of presenting document titles and highlighting words of the request inside a passage or in ...

Keywords: dynamic summarization, meta-descriptors and topical descriptors identification, text structure, text visualization

10 Visibility culling using hierarchical occlusion maps
Hansong Zhang, Dinesh Manocha, Tom Hudson, Kenneth E. Hoff
August 1997 **Proceedings of the 24th annual conference on Computer graphics and interactive techniques**
Full text available: pdf(597.69 KB)   Additional Information: full citation, references, citings, index terms

Keywords: hierarchical data structures, image pyramid, interactive display, occlusion culling, visibility culling

11 Industrial and practical experience track paper session 1: A personalized search engine based on web-snippet hierarchical clustering
Paolo Ferragina, Antonio Gulli
May 2005 **Special interest tracks and posters of the 14th international conference on World Wide Web**
Full text available: 📄 pdf(514.22 KB)   Additional Information: full citation, abstract, references, index terms

. In this paper we propose a hierarchical clustering engine, called snaket, that is able to organize on-the-fly the search results drawn from 16 commodity search engines into a hierarchy of labeled folders. The hierarchy offers a complementary view to the flat-ranked list of results returned by current search engines. Users can navigate through the hierarchy driven by their search needs. This is especially useful for informative, polysemous and poor queries.SnakeT is the first complete an ...

Keywords: information extraction, new search applications and interfaces, personalized web ranking, search engines, web snippets clustering

12 Book reviews: Abstracts of current literature
Computational Linguistics Staff
September 1989 **Computational Linguistics**, Volume 15 Issue 3

Full text available: 📄 pdf(339.85 KB)
📄 Publisher Site   Additional Information: full citation

13 The structure of user-adviser dialogues: is there method in their madness?
Raymonde Guindon, Paul Sladky, Hans Brunner, Joyce Conner
July 1986 **Proceedings of the 24th annual meeting on Association for Computational Linguistics**
Full text available: 📄 pdf(653.30 KB)
📄 Publisher Site   Additional Information: full citation, abstract, references, citings

Novice users engaged in task-oriented dialogues with an adviser to learn how to use an unfamiliar statistical package. The users' task was analyzed and a task structure was derived. The task structure was used to segment the dialogue into subdialogues associated with the subtasks of the overall task. The representation of the dialogue structure into a hierarchy of subdialogues, partly corresponding to the task structure, was validated by three converging analyses. First, the distribution of non- ...

14 Special issue on knowledge representation
Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available: 📄 pdf(13.13 MB)   Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

15 SIGART special issue on machine learning
April 1981 **ACM SIGART Bulletin**, Issue 76

Full text available: pdf(3.33 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>

Current research on Machine Learning encompasses a diverse set of approaches, and of opinions regarding where the important issues lie. The significant increase of interest and research activity in Machine Learning over the past few years has led us to organize this special issue of SIGART, whose purpose is to provide a snapshot of current research in this field. This issue contains a set of summaries of ongoing research, solicited from the community at large, and received from thirty-five resea ...

16 <u>Extracting significant time varying features from text</u>
Russell Swan, James Allan
November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Full text available: pdf(970.68 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We propose a simple statistical model for the frequency of occurrence of features in a stream of text. Adoption of this model allows us to use classical significance tests to filter the stream for interesting events. We tested the model by building a system and running it on a news corpus. By a subjective evaluation, the system worked remarkably well: almost all of the groups of identified tokens corresponded to news stories and were appropriately placed in time. A preliminary objective eva ...

17 <u>Metamodeling in EIA/CDIF---meta-metamodel and metamodels</u>
Rony G. Flatscher
October 2002 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 12 Issue 4

Full text available: pdf(434.96 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>, <u>review</u>

This article introduces the EIA/CDIF set of standards for the modeling of information systems and its exchange among computer-aided software tools of different vendors. It lays out the meta-metamodel and the standardized metamodels which are fully depicted in a hierarchical layout and annotated with the unique identifiers of all the standardized modeling concepts. The article also stresses the fact that EIA/CDIF has been used as the baseline in the creation of an international standard, the ISO/ ...

Keywords: CASE Data Interchange Format, CDIF, EIA, clear text encoding, languages, meta-metamodels, metamodels, system design

18 <u>Metadata for digital libraries: architecture and design rationale</u>
Michelle Baldonado, Chen-Chuan K. Chang, Luis Gravano, Andreas Paepcke
July 1997 **Proceedings of the second ACM international conference on Digital libraries**

Full text available: pdf(1.65 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: CORBA, InfoBus, attrabute model translation, attribute model translation, digital libraries, heterogeneity, interoperability, metadata architecture, metadata repository, proxy architecture

19 <u>Special issue: AI in engineering</u>
D. Sriram, R. Joobbani
January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: pdf(8.79 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

20 Storing HyTime documents in an object-oriented databases

Klemens Böhm, Karl Aberer

November 1994 **Proceedings of the third international conference on Information and knowledge management**

Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, citings, index terms

An open hypermedia-document storage system has to meet requirements that are not satisfied by existing systems: it has to support non-generic hypermedia document types, i.e. document types enriched with application-specific semantics. It has to provide hypermedia-document access methods. Finally, it has to allow the exchange of hypermedia documents with other systems. On a technical level, an object-oriented database-management system, on a logical level, a well established ISO standard, na ...

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